

* NOTICES *

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CLAIMS

[Claim(s)]

[Claim 1] It is the disposable auxiliary pad carry out becoming from the material with which it is the disposable auxiliary pad used laying in the wearer side side of these wear goods when a wearer wears throwing away or non-throwing away wear goods, said disposable auxiliary pad is equipped with an absorber, the liquid permeability top sheet by which the laminating was carried out to the absorber bottom, and the backseat by which the laminating was carried out to the absorber bottom, and this backseat may penetrate some elimination liquid as the description.

[Claim 2] The disposable auxiliary pad according to claim 1 whose backseat is 20 - 50% of numerical apertures and whose opening area is the opening sheet which has 0.5mm two or more holes [one or more].

[Claim 3] A backseat is JIS. Disposable auxiliary pad according to claim 1 whose water pressure-proof by L1092 is a nonwoven fabric layered product 30mm or more.

[Claim 4] An absorber is equipped with the interlayer who intervenes between the upper absorber, a lower layer absorber, and these vertical layer absorber, and this interlayer is JIS. Disposable auxiliary pad given in either of claims 1-3 whose water pressure-proof by L1092 is nonwoven fabric layered products 30mm or more.

[Claim 5] A disposable auxiliary pad given in either of claims 1-3 whose area of 20 - 50% and each hole an absorber is equipped with the interlayer who intervenes between the upper absorber, a lower layer absorber, and these vertical layer absorber, and a numerical aperture is two or more 0.5mm opening sheets for this interlayer.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention is attached in the inside of wear goods, such as a disposable diaper, and relates to the disposable auxiliary pad which cannot cause the horizontal leakage of the urine of wear goods especially easily about the disposable auxiliary pad which absorbs urine.

[0002]

[Description of the Prior Art] If it is attached in a wearer (henceforth [these are named generically and] wear goods) side (skin) side, such as a disposable diaper, and disposable trousers or incontinencia trousers of not throwing [which can be washed] away, and there is incontinencia or urination, a disposable auxiliary pad exchanges only an auxiliary pad, and it will be used in order to maintain an always clean condition. This has an expensive disposable product, and exchanging for every urination will be based on reasons with it, if it is the incontinencia trousers in which an uneconomical thing and wash are possible. [the product structure of a disposable auxiliary pad is easy, and troublesome / wash / , cheap]

[0003] However, if it exchanges for every incontinencia or urination even if it calls it a cheap disposable auxiliary pad, costs will increase. Moreover, the amount of dust also increases. In the case of the disposable auxiliary pad using the top sheet which was excellent in the dry feeling which does not carry out liquid return especially from such things, the wearers who use a disposable auxiliary pad for a wearer over long duration comparatively since there is little displeasure are increasing in number.

[0004] However, since the urine beyond the absorption capacity of a disposable auxiliary pad begins to leak from both the sides of an auxiliary pad to wear goods with the auxiliary pad bottom (opposite side of a skin) when the turnover rate of a disposable auxiliary pad is reduced and long duration use is carried out, This urine that has leaked will focus on the location by the side of the root of a wearer's foot which is the easiest to carry out horizontal leakage, might carry out horizontal leakage to the outside of wear goods after all, and might soil a sheet and clothing. Moreover, it had become the cause of post-leakage during sleeping etc.

[0005]

[Problem(s) to be Solved by the Invention] As a result of this invention persons' examining these leakage phenomena, it turned out that the cause of generating is in the backseat made from the non-liquid-permeable nature plastic film of a disposable auxiliary pad. That is, since the backseat of non-liquid-permeable nature has covered the whole lowest layer surface of an auxiliary pad, the urine beyond the absorption capacity of an absorber cannot but leak from the edge of the cross direction of an auxiliary pad, or a longitudinal direction, and it cannot but come out. Since the absorber of wear goods is manufactured supposing the busy condition without an auxiliary pad, naturally it is arranged by the part in which an auxiliary pad is located. Consequently, the urine which leaked and came out of the auxiliary pad will flow around the absorber of wear goods, and had caused horizontal leakage and post-leakage.

[0006] So, in this invention, it hung up preventing the horizontal leakage and back leakage from wear

[0013] When preparing one hole of a major diameter (drawing 1), as for the area of a hole, also in any in the case (drawing 2) of preparing two or more holes, it is desirable to carry out to two or more [0.5mm]. It is because shift of urine will be barred if too small. The magnitude of a more desirable hole is two or more [5mm] still more preferably two or more [1mm].

[0014] Moreover, as for the ratio of the opening area occupied in the area of the whole backseat, i.e., a numerical aperture, considering as 20 - 50% is desirable. If a numerical aperture is smaller than 20%, the purpose of this invention may fully be unable to be attained. Moreover, if opening is prepared exceeding 50%, since the urine absorbed by the auxiliary pad will shift to a wear goods side altogether with time and the semantics using an auxiliary pad will be lost, it is not desirable.

[0015] Although especially the material of a backseat 1 is not limited, the nonwoven fabric made from hydrophobic fiber, such as soft films, such as polyethylene and polypropylene, and polyethylene, polypropylene, is desirable. Since it is hard to measure a numerical aperture in the case of a nonwoven fabric, it is JIS. It is desirable that the water pressure-proof measured according to the hydrostatic-pressure method of the low water pressure method of L1092 uses a thing 30mm or more. In order to make it such water pressure-proof, two or more laminatings of the nonwoven fabric made from hydrophobic fiber may be carried out. It is also possible to, open the hole shown in the nonwoven fabric at drawing 1 or drawing 2 , of course. The minimum of water pressure-proof has 40 more desirablemm or more, and its 50mm or more is still more desirable.

[0016] Although the top sheet 2 will not be limited especially if it is a material which has liquid permeability, its film with which a nonwoven fabric and many holes were prepared from a feeling of the touch is desirable. Since long duration use is possible for the auxiliary pad of this invention, it is desirable to use a top sheet with a dry feeling with little liquid return so that displeasure may not be given to a wearer. For example, it is good to use the hole vacancy plastic film which made the skin side the nonwoven fabric side made from hydrophobic fiber, and used the layered product which the laminating of the nonwoven fabric made from hydrophobic fiber and the nonwoven fabric made from hydrophilic fiber was carried out [layered product], and combined both by needle punch, or carried out hydrophilization processing of near the hole.

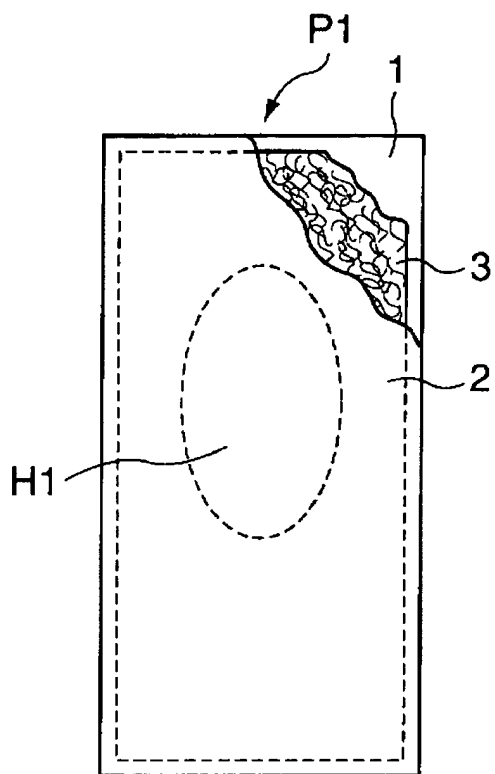
[0017] Although an absorber 3 will not be especially limited if it has the operation which absorbs urine, in natural pulp fiber, a synthetic fiber, high absorptivity polymer powder, etc., a laminating is carried out and mixing or the thing constituted so that the periphery might be wrapped in with tissue paper and fiber might not **** is used preferably.

[0018] The example shown in drawing 3 is a sectional view for explaining the example which made the absorber 3 the three-tiered structure. In addition, although each part material has opened and indicated that spacing is legible, in practice, it pastes up suitably and is close with adhesion means, such as heat sealing and hot melt adhesive. In drawing 3 , interlayer 33b is prepared between upper absorber 33a and lower layer absorber 33c. As interlayer 33b, the nonwoven fabric made from hydrophobic fiber or an opening sheet is desirable. As illustrated as said material for backseats, as a nonwoven fabric made from hydrophobic fiber, it is JIS. It is desirable that the water pressure-proof measured according to the hydrostatic-pressure method of the low water pressure method of L1092 uses a thing 30mm or more, as an opening sheet, it is 20 - 50% of numerical apertures, and it is desirable to use that in which opening area has 0.5mm two or more holes [one or more].

[0019] Since it will be checked partially that the urine absorbed by upper absorber 33a is spread in the direction of a vertical, and shifts to lower layer absorber 33c by existence of interlayer 33b, it is horizontally spread in upper absorber 33a. For this reason, after also diffusing shift of the urine from upper absorber 33a to lower layer absorber 33c throughout absorber 33a rather than concentrating on an urination part, it shifts. Furthermore, a backseat 31 is passed, since it shifts to the bottom, being spread throughout lower layer absorber 33c also when shifting to the absorber of the wear goods (refer to drawing 4) which exist in the backseat 31 bottom, it is lost that concentrate on a part and urine shifts to a wear goods side, and the urine leakage effectiveness increases further. In addition, an absorber 3 cannot be made into a three-tiered structure like drawing 3 , but can also be made into 5 layer structures or the laminated structure beyond it like an absorber-interlayer-absorber-interlayer-absorber.

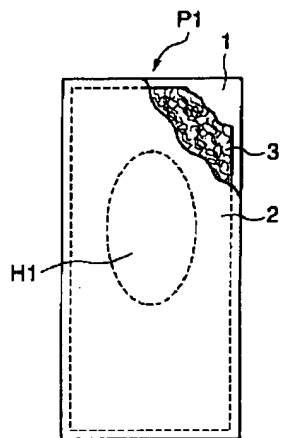
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Drawing selection ☒ Representative drawing ☐



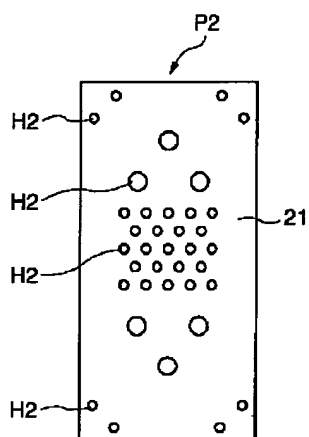
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Drawing selection | drawing 1



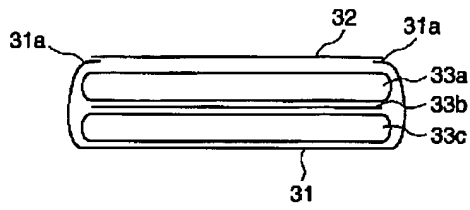
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Drawing selection drawing 2



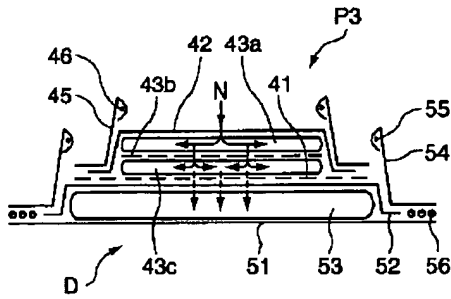
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Drawing selection



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Drawing selection | drawing 4



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